

## Patent Abstracts of Japan

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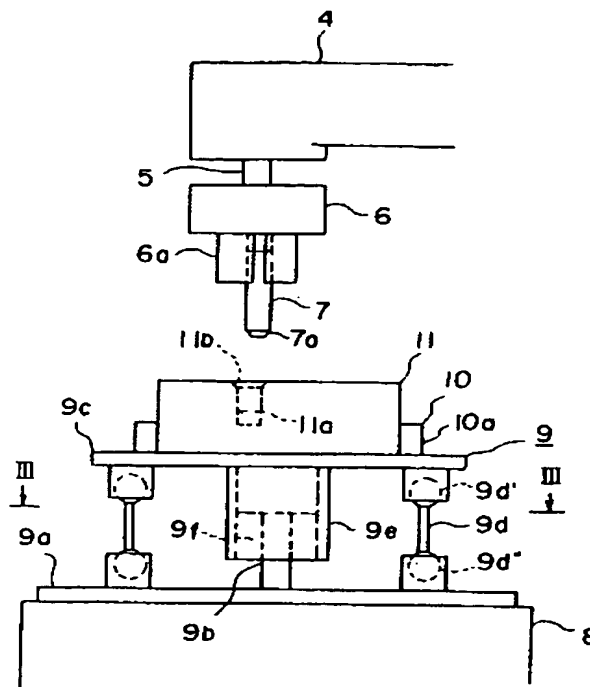
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TITLE : WORKPIECE SUPPORTING APPARATUS



ABSTRACT : PURPOSE: To make the handle side of a robot small-sized and lightweight by shifting the part fixed onto a center-shift absorbing apparatus installed onto a working-base side, in a work supporting apparatus which assembles highly fine parts by driving an industrial robot.

CONSTITUTION: An industrial robot body is equipped with a working base 8 and a work supporting apparatus 9 which possesses the center-shift absorbing function. When the first arm and the second arm 4 are controlled, and the center of a rod member 7 is shifted a little relatively with respect to the center of a hole 11a, if the shift dimension is at most the total dimension of a beveling parts 7a and 11b, the rod member 7 is lowered by controlling a lifting body, and then an elastic body 9f is deformed, and the rod member 7 is permitted to automatically coincide with and inserted into the center of the hole 11a on an article 11 to be inserted, and therefore, assembly work can be executed certainly. With such constitution, the handle side of a robot can be made small-sized and lightweight.

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